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METHOD AND SYSTEM FOR TRANSMISSION  
AND FREQUENCY DOMAIN EQUALIZATION FOR  
WIDEBAND CDMA COMMUNICATIONS

ABSTRACT OF THE DISCLOSURE

The invention provides a method and system for transmission and  
10 frequency domain equalization for wideband CDMA communications by providing  
at least one spread sequence portion, and inserting a cyclic redundancy to the  
spread sequence to form a transmitted baseband sequence. The invention  
further provides a method and system for converting a plurality of receive  
samples from at least one spread sequence portion into a plurality of frequency  
15 domain samples, determining a plurality of frequency domain equalization  
weights for the frequency domain samples, and determining a time domain signal  
estimate based on the frequency domain equalization weights and frequency  
domain samples.

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